

## Asst. Prof. AYFER BECEREN

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, Turkey 2006 - 2011

Postgraduate, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, Turkey 2003 - 2005

Undergraduate, Marmara University, Faculty of Pharmacy, Eczacılık Pr., Turkey 1999 - 2003

### Dissertations

Doctorate, Kolorektal kanser tanılı olgularda ve birinci derece yakınlarında DNA hasarının ve onarım kapasitesinin araştırılması, Marmara Üniversitesi, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2011

Postgraduate, İstanbul'da piyasadan temin edilen işlenmiş hububat ve bakliyat örneklerinde diasetoksisirpenol (anguidin) aranması ve miktar tayini, Marmara Üniversitesi, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2005

### Research Areas

Pharmaceutical Toxicology

### Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2012 - Continues

Lecturer, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2011 - 2012

Research Assistant, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, 2003 - 2011

### Courses

Basic Toxicology, Undergraduate, 2020 - 2021

## Advising Theses

- Beceren A., *Micromeria fruticosa* Bitkisinin Antienflamatuvar, Analjezik ve Antispazmodik Aktiviteleri ile Sitotoksik ve Genotoksik Etkilerinin Değerlendirilmesi, Postgraduate, I.ÇELİKKOL(Student), 2021
- ELÇİOĞLU H. K., BECEREN A., Sıçanlarda streptozotosin ile oluşturulan diabetes mellitus modelinde mikrorrna'ların kardiyomyopatide etkileri, Postgraduate, A.Şeyda(Student), 2019
- BECEREN A., Neraband (*scorzonera veratrifolia*) bitkisinin antioksidan ve yara iyileştirici özelliklerinin araştırılması, Postgraduate, M.GEÇİM(Student), 2018
- BECEREN A., Türkiye'de sigara kullanan genç bireylerin bukkal hücrelerinde genotoksik hasarın mikroçekirdek yöntemi ile belirlenmesi: Prospektif randomize kontrollü çalışma, Postgraduate, G.CANSU(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **It Is Time to Revitalize the Antibiotic Pipeline: Systems Ecology Can Help**  
Sardas S., Buyuk A. S., BECEREN A.  
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.24, no.3, pp.124-128, 2020 (SCI-Expanded)
- II. **DNA repair capacity of the colorectal cancer patients and the correlation between the pathological parameters**  
Tolan H. K., Tozan-Beceren A., Sardas S., Senkesen O., Celikel Ç., Gencosmanoglu R., Yegen C.  
NIGERIAN JOURNAL OF CLINICAL PRACTICE, vol.22, no.2, pp.194-200, 2019 (SCI-Expanded)
- III. **Protective effect of N-Acetyl-L-Cysteine (NAC) on endosulfan-induced liver and kidney toxicity in rats**  
BECEREN A., Şehirli A. O., Omurtag G. Z., Arbak S., Turan P., ŞENER G.  
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE, vol.10, no.7, pp.10031-10039, 2017 (SCI-Expanded)
- IV. **Melatonin ameliorates oxidative DNA damage and protects against formaldehyde-induced oxidative stress in rats**  
AYDEMİR S., AKGÜN ÖLMEZ S. G., BECEREN A., YÜKSEL M., Kumas M., Erdogan N., Sardas S., Omurtag G. Z.  
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE, vol.10, no.4, pp.6250-6261, 2017 (SCI-Expanded)
- V. **Resveratrol ameliorates oxidative DNA damage and protects against acrylamide-induced oxidative stress in rats.**  
Alturfan A. A., Tozan-Beceren A., Şehirli A. O., Demiralp E., ŞENER G., Omurtag G. Z.  
Molecular biology reports, vol.39, no.4, pp.4589-96, 2012 (SCI-Expanded)
- VI. **Protective effect of N-acetyl-L-cysteine against acrylamide-induced oxidative stress in rats**  
ALTURFAN E. I., BECEREN A., Şehirli A. O., Demiralp Z. E., ŞENER G., Omurtag G. Z.  
TURKISH JOURNAL OF VETERINARY & ANIMAL SCIENCES, vol.36, no.4, pp.438-445, 2012 (SCI-Expanded)
- VII. **Melatonin protects against acrylamideinduced oxidative tissue damage in rats Sıçanlarda akrilamidin neden olduğu oksidatif doku hasarına karşı melatoninin koruyucu etkisi**  
Tozan-Beceren A., Şehirli A. Ö., Eksioğlu-Demiralp E., ŞENER G., Omurtag G. Z.  
Marmara Pharmaceutical Journal, vol.16, no.3, pp.213-221, 2012 (SCI-Expanded)
- VIII. **Comparison of biocompatibility and cytotoxicity of two new root canal sealers.**  
Gençoğlu N., Şener G., Omurtag G. Z., Tozan A., Uslu B., Arbak S., Helvacioğlu D.  
Acta histochemica, vol.112, pp.567-75, 2010 (SCI-Expanded)
- IX. **Evaluation of DNA damage in construction-site workers occupationally exposed to welding fumes and solvent-based paints in Turkey.**  
Sardas S., Omurtag G. Z., Tozan A., Gul H., Beyoğlu D.  
Toxicology and industrial health, vol.26, no.9, pp.601-8, 2010 (SCI-Expanded)
- X. **Protective effect of resveratrol against naphthalene-induced oxidative stress in mice.**  
Şehirli O., Tozan A., Omurtag G. Z., ÇETİNEL Ş., Contuk G., Gedik N., Şener G.  
Ecotoxicology and environmental safety, vol.71, no.1, pp.301-8, 2008 (SCI-Expanded)

- XI. **Melatonin protects against endosulfan-induced oxidative tissue damage in rats.**  
 Omurtag G. Z., Tozan A., Sehirli A. O., Sener G.  
 Journal of pineal research, vol.44, no.4, pp.432-8, 2008 (SCI-Expanded)
- XII. **Occurrence of diacetoxyscirpenol (anguidine) in processed cereals and pulses in Turkey by HPLC**  
 Omurtag G. Z., Tozan A., Sirkecioglu O., Kumbaraci V., Rollas S.  
 Food Control, vol.18, no.8, pp.970-974, 2007 (SCI-Expanded)
- XIII. **Nonprescription medication purchases and the role of pharmacists as healthcare workers in self-medication in Istanbul.**  
 Gül H., Omurtag G., Clark P., Tozan A., Ozel S.  
 Medical science monitor : international medical journal of experimental and clinical research, vol.13, 2007 (SCI-Expanded)
- XIV. **Ginkgo biloba extract protects against mercury(II)-induced oxidative tissue damage in rats**  
 Sener G., Sehirli O., Tozan A., Velioglu-Ovunc A., Gedik N., Omurtag G. Z.  
 FOOD AND CHEMICAL TOXICOLOGY, vol.45, no.4, pp.543-550, 2007 (SCI-Expanded)
- XV. **Ginkgo biloba extract reduces naphthalene-induced oxidative damage in mice.**  
 Tozan A., Sehirli O., Omurtag G. Z., Cetinel S., Gedik N., Sener G.  
 Phytotherapy research : PTR, vol.21, no.1, pp.72-7, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Radioprotective effect of resveratrol for early and late ionizing radiation-induced damages on colon and rectum in rats**  
 Beceren A., Aydemir S., Atasoy B. M., Ak E., Ercan F., Şener T. E., Şener G.  
 Journal of research in pharmacy (online), vol.27, no.4, pp.1617-1625, 2023 (ESCI)
- II. **SAFETY OF HERBAL DRUGS**  
 BECEREN A.  
 Journal of Research in Pharmacy, vol.27, pp.1-3, 2023 (Scopus)
- III. **Evaluation of clinical pharmacist interventions on drug-related problems in the gastroenterology ward**  
 CEYLAN C., SANCAR M., BECEREN A., Demir A., KUŞ C., Omurtag G. Z.  
 JOURNAL OF RESEARCH IN PHARMACY, vol.26, no.3, pp.687-696, 2022 (ESCI)
- IV. **Polyphenolic composition and Antioxidant Effect of Aerial Parts and Roots Extracts from Scorzonera veratrifolia**  
 Taskin D., Gecim M., DOĞAN A., BECEREN A.  
 International Journal of Secondary Metabolite, vol.8, no.3, pp.284-299, 2021 (Scopus)
- V. **EVALUATION OF GENOTOXICITY RISK IN HEALTH CARE WORKERS EXPOSED TO ANTINEOPLASTIC DRUGS**  
 OLTULU Ç., YEŞİL DEVECİOĞLU T., AKINCI M., AKGÜN ÖLMEZ S. G., OBEIDIN S. V., BECEREN A.  
 CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.9, pp.166-170, 2019 (ESCI)
- VI. **The importance of genotoxicity tests in new drug development process Genotoksisite testlerinin yeni ilaç geliştirme sürecindeki önemi**  
 ŞEN S., BECEREN A., AKSOY H.  
 International Journal of Human Sciences, vol.15, no.3, pp.1634-1649, 2018 (Peer-Reviewed Journal)
- VII. **Yeni ilaç geliştirme sürecinde genotoksisite testlerinin yeri ve önemi**  
 ŞEN S., BECEREN A., AKSOY H.  
 Journal OF Human Science, vol.15, no.3, pp.1634-1649, 2018 (Peer-Reviewed Journal)
- VIII. **Investigation of Antioxidants's Antimutagenic Effects by The Ames Test**  
 BECEREN A., Sarikaya B., Tatlipinar E., Omurtag G. Z., Sardas S.  
 MARMARA PHARMACEUTICAL JOURNAL, vol.21, no.3, pp.455-460, 2017 (ESCI)
- IX. **DNA damage in gasoline station workers caused by occupational exposure to petrol vapour in**

## Turkey

BECEREN A., Akdemir N., Omurtag G. Z., Tatlıpınar M. E., Şardaş S.  
Acta Pharmaceutica Scientia, vol.54, no.1, pp.53-62, 2016 (Scopus)

- X. **Assessment of DNA Damage and Protective Role of Vitamin E Supplements after Exhaustive Exercise by Comet Assay in Athletes**  
ŞARDAŞ S., OMURTAG G. Z., MONTERIO I., BEYOĞLU D., BECEREN A., COTUK H.  
Journal of Clinical Toxicology, 2011 (ESCI)
- XI. **Kolorektal kanser tanısı konmuş olgularda ve birinci derece yakınlarında DNA hasarının araştırılması.**  
BECEREN A., OMURTAG G. Z., YEĞEN C., ŞARDAŞ S.  
Journal of Marmara University Institute of Health Sciences (MÜSBED), vol.1, no.3, pp.155-161, 2011 (Peer-Reviewed Journal)
- XII. **A review on fumonisin and trichothecene mycotoxins in foods consumed in Turkey**  
Omurtag G. Z., Yazicioğlu D., Beyoğlu D., Tozan A., Atak G.  
ARI Bulletin of the Istanbul Technical University, vol.54, no.4, pp.39-44, 2006 (Scopus)

## Books & Book Chapters

- I. **Metal Zehirlenmeleri**  
ŞARDAŞ S., BECEREN A.  
in: Zehirlenmeler Yeni Akıl Notları, Hülya ULUSOY, Editor, güneş, Ankara, pp.653-668, 2019
- II. **Türk Farmakopesi 2017**  
Türk Farmakopesi Çalışma Grubu Üyeleri Ü. y., EMERCE E.  
Artı 6 Reklam Matbaa Ltd. Şti., Ankara, 2018
- III. **Toksikolojinin Temelleri**  
DURAL E., boşgelmez i. i., ÜNLÜ ENDİRLİK B., EKEN A., AYDIN S., ULUTAŞ O. K., DEMİRBÜĞEN M., ÜSTÜNDAĞ A., UÇKUN Z., YILMAZ SARIALTIN S., et al.  
Ankara Nobel Tıp Kitapevleri, Ankara, 2017
- IV. **Karaciğerin Toksik Cevabı**  
BECEREN A., KARSLI ÇEPPIÖĞLU S.  
in: Casarett Doull's Toksikolojinin Temelleri, Süzen S, Erdem O, Erkekoğlu P, Çakmak Demircigil G, Ada AO, Demirel B, Editor, Ankara Nobel Tıp Kitabevleri, Ankara, pp.195-208, 2017
- V. **Zirai İlaçların Satışı ve Güvenli Kullanımında Eczacının Rolü**  
BECEREN A., OMURTAG G. Z.  
in: Eczacının Başvuru Rehberi, Prof. Dr. Cengiz Yakıncı, Prof. Dr. Göknur Aktay, Editor, Türk Eczacıları Birliği, Ankara, pp.347-353, 2016

## Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of in vitro genotoxic effects of pine resin and Aronia melonacarpa on prostate and breast cancer cell lines by using comet assay technique**  
Becerren A., Bingöl Özakpınar Ö.  
11th International Congress of the Turkish Society of Toxicology, Antalya, Turkey, 2 - 05 November 2022, pp.60
- II. **Evaluation of Antioxidant, Analgesic, Anti-Inflammatory and Antispasmodic Activity and Genotoxic Effect of Micromeria Fruticosa Subsp Brachycalyx In Vitro and In Vivo**  
Çelikkol I., Beceren A., Kabasakal L., Taşkın T., Aydemir S.  
The 13th International Symposium on Pharmaceutical Sciences (ISOPS)., Ankara, Turkey, 22 - 25 July 2021, no.129, pp.83-84
- III. **Amelioration of Incision Wound Healing by Scorzonera Veratrifolia Extract in Rats: Evaluation Of**

## **Oxidative Stress And Genotoxic Effect**

BECEREN A., Geçim M., ÖZKAN N., YÜKSEL M.

10th International Congress of the Turkish Society of Toxicology (TST), Antalya, Turkey, 16 - 19 October 2019

- IV. **Investigation of the effects of infrared rays on DNA strand in hot environment workers by comet assay**  
Kanbur S., Beceren A., Aydemir S., Uzun M. F.  
54th Congress of the European-Societies-of-Toxicology (EUROTOX) - Toxicology Out of the Box, Brussels, Belgium, 2 - 05 September 2018, vol.295
- V. **Evaluation of micronucleus frequency in buccal cells of smokers**  
Dökmeci G. C., BECEREN A., ŞARDAŞ S.  
International Meeting on Education and Research in Health Sciences (IMER-HS), İstanbul, Turkey, 3 - 05 November 2017
- VI. **Piyasadan çekilmiş analjezik ilaçların retrospektif analizi**  
KOCADAL K., ALKAŞ F. B., BECEREN A.  
III. Ulusal Farmakovijilans Kongresi, Turkey, 1 - 03 November 2017
- VII. **The role of St. John's Wort against formaldehyde toxicity induced by inhalation in rats**  
AYDEMİR S., BECEREN A., Gecim M., BİNGÖL ÖZAKPINAR Ö., Sehirli A. O., Omurtag G. Z.  
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- VIII. **Evaluation of incision wound healing activity of Scorzonera veratrifolia in Wistar albino rats**  
Gecim M., BECEREN A., AYDEMİR S., Sardas S.  
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- IX. **Protective role of St. John's Wort on formaldehyde-induced lung tissue injury: Inhibition of inflammation and oxidative stress mediated apoptosis**  
BECEREN A., AYDEMİR S., BİNGÖL ÖZAKPINAR Ö., Sehirli A. O., Omurtag G. Z.  
53rd Congress of the European-Societies-of-Toxicology (EUROTOX), Bratislava, Slovakia, 10 - 13 September 2017, vol.280
- X. **Evaluation of cytotoxic and genotoxic effect of Scorzonera veratrifolia**  
BECEREN A., Geçim M., BİNGÖL ÖZAKPINAR Ö., TAŞKIN T., DOĞAN A., ŞARDAŞ S.  
1st International Congress on Medicinal and Aromatic Plants "Natural and Healthy Life", Turkey, 9 - 12 May 2017, pp.1407
- XI. **Bitki-İlaç Etkileşimleri**  
BECEREN A.  
Bitkilerle Tedavi Sempozyumu (BİTES 2017), İstanbul, Turkey, 09 May 2017
- XII. **Resveratrol Protects Against Ionizing Radiation-Induced Multiple Organ Damage in Rats**  
BECEREN A., AK E., AYDEMİR S., ATASOY B. M., Değerli A. D., ERCAN F., ŞENER G.  
3rd. International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017
- XIII. **Resveratrol protects against ionizing radiation induced multiple organ damage**  
BECEREN A., AK E., AYDEMİR S., ATASOY B. M., DAGLI DEĞERLİ A., ERCAN F., ŞENER G.  
3rd IVEK, 26 - 29 April 2017
- XIV. **İlaç Geliştirilmesinde Preklinik Toksikite Testlerinin Önemi**  
BECEREN A.  
1. Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 3 - 05 November 2016
- XV. **Comparison of inhaled and intraperitoneal formaldehyde toxicity in rats and the evaluation of the effects of melatonin**  
Aydemir S., Akgun S. G., Ozkan N., Yuksel M., Beceren A., Erdogan N., Omurtag G. Z.  
52nd Congress of the European-Societies-of-Toxicology (EUROTOX), Sevilla, Spain, 4 - 07 September 2016, vol.258
- XVI. **The wound healing effects of Nerium oleander extract against burn-induced oxidative injury**  
Akgun S. G., Aydemir S., Ozkan N., Beceren A., Sardas S.  
52nd Congress of the European-Societies-of-Toxicology (EUROTOX), Sevilla, Spain, 4 - 07 September 2016, vol.258

- XVII. **Comparison of inhaled and intraperitoneal formaldehyde toxicity in rats and the evaluation of the effects of melatonin**  
AYDEMİR S., AKGÜN S. G., ÖZKAN N., YÜKSEL M., BECEREN A., ERDOĞAN N., OMURTAG G. Z.  
52nd Congress of the European Societies of Toxicology (EUROTOX), 4 - 07 September 2016
- XVIII. **Assessment of the protective effects of antioxidants on acrylamide induced toxicity in rats**  
BECEREN A., AYDEMİR S., OMURTAG G. Z.  
2nd International Congress Of Forensic Toxicology, 26 - 30 May 2016
- XIX. **Kozmetik ürünlerinde kullanılan bazı koruyucuların uçucu yağlar ile kombinasyonlarının antimikrobiyel ve mutajenik etkilerinin araştırılması**  
TUĞÇE K., BECEREN A., SOYOĞUL GÜRER Ü., GÜRBÜZ B., RAYAMAN P., DALKILIÇ E., RAYAMAN E.  
2nd İVEK International Convention of Pharmaceuticals and Pharmacies, 27 - 29 November 2015
- XX. **Investigation Of Black Cumin Nigella Sativa L Seeds And Its Oil In Terms Of Antioxidant Activity And Total Phenols Content**  
BECEREN A., AYAZ SEYHAN S.  
DRD 2015–International Multidisciplinary Symposium on Drug Research and Development, Eskişehir, Turkey, 15 - 17 October 2015
- XXI. **KALDIRIK Trachystemon Orientalis L G Don bitkisinin sulu ekstraktlarının antioksidan aktivite ve toplam fenol içeriklerinin belirlenmesi**  
AYDEMİR S., AYAZ SEYHAN S., AKGÜN S. G., BECEREN A.  
27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XXII. **Trachystemon Orientalis L G Don bitkisinin farklı kısımlarının antioksidan aktivitelerinin incelenmesi**  
AYAZ SEYHAN S., AYDEMİR S., BECEREN A., AKGÜN S. G.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XXIII. **Kaldirik (Trachystemon Orientalis (L.) G. Don) bitkisinin sulu ekstraktlarının antioksidan aktivite ve toplam fenol içeriklerinin belirlenmesi**  
AYDEMİR S., AYAZ SEYHAN S., AKGÜN S. G., BECEREN A.  
27. ULUSAL KİMYA KONGRESİ, Turkey, 23 - 28 August 2015
- XXIV. **Trachystemon Orientalis (L.) G. Don bitkisinin farklı kısımlarının antioksidan aktivitelerinin incelenmesi**  
AYAZ SEYHAN S., AYDEMİR S., BECEREN A., AKGÜN S. G.  
27. ULUSAL KİMYA KONGRESİ, Turkey, 23 - 28 August 2015
- XXV. **Matbaa İşçilerinde Mesleki Maruziyetin Yaratabileceği Genotoksik Hasarın Araştırılması**  
BECEREN A., OMURTAG G. Z., DÖNBAK L., ÇİMEN B., YEŞİL DEVECİOĞLU T., ŞARDAŞ S.  
1. Ulusal Palandöken Toksikoloji Sempozyumu, Turkey, 28 - 30 May 2010

## Expert Reports

### I. Ürün İmha Raporu

Şener A., Karakuş S., Alarçin E., Ayaz Seyhan S., Beceren A.  
Gilead Sciences İlaç Tic.Ltd. Şti., pp.2, İstanbul, 2021

## Supported Projects

Beceren A., Bingöl Özakpınar Ö., Taşkın T., Yüksel M., Doğan A., Taşkın D., Özkan Yenal N., TÜBİTAK Project, Scorzonera Veratrifolia Bitkisinin Biyolojik Aktivitelerinin In Vitro-In Vivo Olarak Değerlendirilmesi Ve Aktif Fenolik Bileşiklerinin Hplc-Dad-Esi-Q-Tof-Ms İle Analizi, 2018 - 2020

## Activities in Scientific Journals

Acta Pharmaceutica Scientia, Editor, 2016 - Continues  
MARMARA PHARMACEUTICAL JOURNAL, Editor, 2016 - Continues

## **Memberships / Tasks in Scientific Organizations**

Türk Toksikoloji Derneği, Member, 2019 - Continues, Turkey  
Farmakovijilans Derneği, Board Member, 2018 - Continues, Turkey

## **Scientific Refereeing**

Ankara Üniversitesi Eczacılık Fakültesi Dergisi , National Scientific Refreed Journal, November 2022  
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, Journal Indexed in ESCI, November 2022  
the Journal of Veterinary Pharmacology and Therapeutics, Journal Indexed in ESCI, November 2022  
Istanbul Journal of Pharmacy, Journal Indexed in ESCI, June 2022  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, May 2022  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, March 2022  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, September 2021  
ACTA PHARMACEUTICA SCIENTIA, National Scientific Refreed Journal, September 2021  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, January 2021  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, December 2017  
JOURNAL OF RESEARCH IN PHARMACY, Journal Indexed in ESCI, June 2017

## **Scientific Consultations**

T.C. TARIM VE ORMAN BAKANLIĞI Gıda ve Kontrol Genel Müdürlüğü, Scientific Consultancy, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, Turkey, 2022 - Continues  
BİDEB -BİLİM İNSANI DESTEK PROGRAMLARI BAŞKANLIĞI, Project Consultancy, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, Turkey, 2021 - 2021  
BİDEB -BİLİM İNSANI DESTEK PROGRAMLARI BAŞKANLIĞI, Project Consultancy, Marmara University, Faculty of Pharmacy, Professional Pharmaceutical Sciences, Turkey, 2021 - 2021

## **Metrics**

Publication: 58  
Citation (WoS): 362  
Citation (Scopus): 512  
H-Index (WoS): 10  
H-Index (Scopus): 9